

On page 35, line 11, change "filler" to --filter--.

In The Claims:

Please amend claims 85, 87, 92-94, 97-98, 102, 104, 106, 108, 115, 118, 121 and 123-125 as follows:

85. (Amended) A virtual reality generator to display financial information as a virtual reality world, the virtual reality generator comprising:

X  
Sub.  
E-  
1

an input module receiving financial information from a financial data feed system, the financial data feed system generating the financial information as a function of predetermined financial analytics on real-time and pre-stored financial data [in real-time from a financial data feed];

a user interface module [receiving as input a plurality of display parameters and a plurality of filter parameters, the user interface module filtering the financial information to comply with the plurality of filter parameters] including a first input selecting at least one financial category and a second input for selecting an axis display parameter, the user interface module further processing the financial information as a function of the at least one financial category and the axis display parameter; and

a virtual reality generator module coupled to the input module and the user interface module, the virtual reality generator generating, continuously modifying, and displaying on a display device a virtual reality world being a three dimensional interface that enables a user to simulate movement through and interact with the financial information, the virtual reality world representing the [filtered] further processed financial information [and satisfying the plurality of display parameters];

wherein when the user simulates movement through and

*D*  
interacts with the financial information, a user viewing the display device has a sensation of traveling through and within the virtual reality world.

*X E*  
87. (Amended) The virtual reality generator of claim 85 wherein the further processed financial information is displayed as a plurality of metaphors in the virtual reality world.

*Sub 3 E*  
92. (Amended) The virtual reality generator of claim 87, wherein the user interface module further includes a third input for selecting at least one financial indicator, and wherein a subset of the plurality of metaphors is selected to rotate [by a predetermined one] as a function of the at least one financial indicator [plurality of display parameters], each metaphor in the subset generated by the virtual reality generator module such that it rotates.

*B P*  
93. (Amended) The virtual reality generator of claim 87, wherein the user interface module further includes a third input for selecting at least one financial indicator, and wherein a subset of the plurality of metaphors is selected to flash as a function of the at least one financial indicator [by a predetermined one of the plurality of display parameters], each metaphor in the subset generated by the virtual reality module such that it flashes.

*E4*  
94. (Amended) The virtual reality generator of claim 85 wherein the [plurality of] axis display parameter[s comprise] includes attributes of financial instruments.

*A E5*  
97. (Amended) The virtual reality generator of claim 96 wherein the virtual reality world represents the financial information for a single industry and each sub-region represents the financial information for the single industry in one of a plurality of markets.

108. (Amended) The virtual reality generator of claim 85,  
wherein the virtual reality world [comprises] includes a  
plurality of metaphors representing a plurality of stocks,  
each one of the plurality of [stocks displayed in the virtual  
reality world satisfying the filter parameters] metaphors  
being generated as a function of the at least one financial  
category and the axis display parameter.

102. (Amended) The virtual reality generator of claim 87  
wherein the user interface module includes means for selecting  
one of the plurality of metaphors and wherein the virtual  
reality generator module includes means for displaying  
information relating to the selected one of the plurality of  
metaphors as a function of the at least one financial  
indicator.

104. (Amended) A virtual reality generator to generate and  
display on a display device a stream of financial information  
received from a financial analytic system, the virtual reality  
generator comprising:

an input module to continuously receive the stream of  
financial information from the financial analytic system, the  
financial analytic system generating the financial information  
as a function of predetermined financial analytics on real-  
time and pre-stored financial data;

a user interface module having a first input for  
selecting at least one financial category and a second input  
for selecting an axis display parameter, the user interface  
module further processing the financial information as a  
function of the at least one financial category and the axis  
display parameter; and

a virtual reality generator module coupled to the input  
module and the user interface module, the virtual reality  
generator generating and displaying [to generate and display]  
a virtual reality world on the display device, the virtual  
reality world being a multi-dimensional representation of the  
stream of financial information displayable from a plurality

of user selected perspectives to enable a user to simulate movement through the virtual reality world such that the user has a sensation of travelling through and within the virtual reality world, the virtual reality generator module including:

- (I) means for generating and continuously modifying the virtual reality world so that the virtual reality world correspondingly represents the stream of further processed financial information,
- (ii) means for causing the virtual reality world to be displayed on the display device, and
- (iii) means for simulating, on the display device, movement through the virtual reality world such that the user viewing the display device has a sensation of travelling through and within the virtual reality world.

106. (Amended) A virtual reality generator to display on a display device financial information, the virtual reality generator comprising:

an input module to receive pre-processed financial information as input, the pre-processed financial information including real-time data and pre-stored data;

a user interface module having a first input for selecting at least one financial category and a second input for selecting an axis display parameter, the user interface module further processing the pre-processed financial information as a function of the at least one financial category and the axis display parameter; and

a virtual reality generator module coupled to the input module and the user interface module, the virtual reality generator generating and displaying [to generate and display] a virtual reality world on the display device, the virtual reality world being a multi-dimensional representation of the further processed financial information continuously displayed from a plurality of user selected perspectives to enable a user to simulate movement through the virtual reality world such that the user has a sensation of travelling through and

within the virtual reality world, the virtual reality generator module including[:]

- (I) means for generating the virtual reality world representing the further processed financial information,
- (ii) means for causing the virtual reality world to be displayed on the display device from a plurality of perspectives, and
- (iii) means for simulating, on the display device, movement through the virtual reality world such that the user viewing the display device has a sensation of travelling through and within the virtual reality world.

108. (Amended) The virtual reality generator of claim 106, wherein the [input module receives the] real-time data [financial information from] is provided via a real-time data feed.

115. The virtual reality generator of claim 106, wherein the user interface module further includes a third input for selecting at least one financial indicator, and wherein the virtual reality world [comprises] includes a plurality of metaphors, each one of the plurality of metaphors representing a subset of the financial information.

118. A virtual reality generator to display on a display device financial information as a virtual reality world, the virtual reality world being an interface that enables a user to simulate movement through the financial information, the virtual reality generator comprising:

means for receiving as input in real-time financial information from a [real-time] data source of financial information, the data source providing real-time and pre-stored data;

a user interface module having a first input for selecting at least one financial category and a second input

~~for selecting an axis display parameter, the user interface module further processing the financial information as a function of the at least one financial category and the axis display parameter; and~~

~~a virtual reality generator module coupled to the input module and the user interface module, the virtual reality generator generating and displaying [to generate and display] a virtual reality world on the display device, the virtual reality world being a multi-dimensional representation of the financial information displayable from a plurality of user selected perspectives to enable a user to simulate movement through the virtual reality world such that the user has a sensation of travelling through and within the virtual reality world, the virtual reality generator module including means for:~~

- ~~(I) generating, in real-time as the further processed financial information is received from the real-time data source of financial information, the virtual reality world representing the financial information,~~
- ~~(ii) displaying in real-time on the display device the virtual reality world representing the further processed financial information,~~
- ~~(iii) displaying the virtual reality world from a plurality of perspectives, and~~
- ~~(iv) simulating in real-time, on the display device, movement through the virtual reality world.~~

*D E*  
121. (Amended) The virtual reality generator of claim 118 wherein the further processed financial information is displayed as a plurality of metaphors in the virtual reality world.

*D E 12*  
123. (Amended) A virtual reality generator, comprising:  
an input module to receive packets of financial

information at regular predetermined intervals, the financial information being generated as a function of real-time and pre-stored financial data;

a user interface module having a first input for selecting at least one financial category and a second input for selecting an axis display parameter, the user interface module further processing the financial information as a function of the at least one financial category and the axis display parameter;

display means coupled to the input module and the user interface module, the display means for displaying on a display device a virtual reality world generated from the packets of the further processed financial information, the virtual reality world being a multi-dimensional representation of the packets of the further processed financial information continuously displayed from a plurality of user selected perspectives to enable a user to simulate movement through and interact with the virtual reality world such that the user, when viewing the display device, has a sensation of travelling within the virtual reality world; and

processing means for updating the virtual reality world when a new packet of financial information is received by the input module.

124. (Amended) A computer-based method for displaying and manipulating large quantities of financial information, the method comprising the steps of:

receiving as input pre-processed financial information, the financial information [including] being generated as a function of real-time and pre-stored data;

selecting at least one financial category and an axis display parameter;

further processing the financial information as a function of the at least one financial category and the axis display parameter, the further processed financial information being selected for display;

[controllably selecting a part of the pre-processed

financial information for display;]

generating a virtual reality world from the further processed financial information selected for display, the virtual reality world being a multi-dimensional representation of the financial information capable of being displayed from a plurality of user selected perspectives to enable a user to simulate movement through the virtual reality world; and

displaying on a display device the virtual reality world as a multi-dimensional computer-generated interface that enables simulation of movement through and interaction with the financial information such that the user, when viewing the display device, has a sensation of travelling through and within the financial information displayed as the virtual reality world.

125. (Amended) A computer implemented method for displaying and manipulating financial information, the method comprising the steps of:

continuously receiving as input packets of financial information, the financial information including real-time and pre-stored data;

Selecting at least one financial category and an axis display parameter;

further processing the financial information as a function of the at least one financial category and the axis display parameter, the further processed financial information being selected for display;

generating, utilizing a computer processor, a virtual reality world from the packets of financial information, the virtual reality world representing the further processed financial information and capable of being displayed from a plurality of perspectives to enable a user to simulate movement through the virtual reality world;

displaying the virtual reality world as a three-dimensional representation on a display device such that a user can simulate movement through the financial information; updating, utilizing the computer processor, the virtual